

## ABSTRACT OF THE DISCLOSURE

An optical device includes, in a predetermined section of an optical fiber, a first functional part having a plurality of Faraday crystal columns that are parallel to each other and almost penetrating perpendicular to an optical axis of an optical fiber through a core thereof, and a second functional part having a plurality of holes that are parallel to each other and almost penetrating perpendicular to the optical axis of the optical fiber through the core thereof. Alongitudinal direction of the Faraday crystal columns and a longitudinal direction of the holes form an angle of 45 degrees along a plane perpendicular to the optical axis. Thus, the optical device can be realized by only processing the optical fiber.